Installation Guide

1-port USB 2.0 Print Server

GPSU21

Welcome

Thank you for purchasing this 1-port USB 2.0 Print Server that allows any networked computer to share a USB printer. It complies with USB 2.0 specifications (and is backward compatible with USB 1.1), and provides an auto-sensing Ethernet port that works with either 10Base-T or 100Base-T networks. This unit also supports multiple protocols and multiple operating systems, and it integrates Internet Printing Protocol (IPP) to allow users to print from anywhere using the internet. The built-in web management feature provides more convenience by allowing the user to configure, monitor and even reset the print server via a web browser. This eliminates the need to place the printer right next to the computer. Print jobs can be sent to a printer in another country just as easily as to a printer in the same office. Why bother sending a degraded fax image while you can print an original at the destination?

We hope that you will enjoy using your Print Server and find it to be a useful solution.

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Package Contents

This package should contain:

1 USB 2.0 Print Server

1 CAT5 Patch Cable

1 Power Adapter

1 Installation CD

1 User Manual

1 Warranty/Registration Card

* If any items are damaged or missing, please contact your dealer.

Features

- Easily connects your USB printer to a network
- Allows multiple computers to share one USB printer on the network
- Print from any computer on your network or from across the Internet
- Supports DHCP Client and multiple network protocols
- 10Base-T/100Base-T auto-sensing
- Supports Telnet and Web Management software

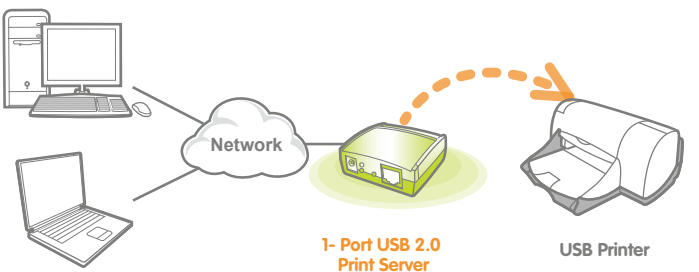
System Requirements

This USB 2.0 Print Server supports:

- Windows 2000/XP/2003
- W indows Vista 32 / 64-bit OS
- Mac OS 9.22 or later
- Unix/Linux
- Printer with a USB connection

Hardware Installation

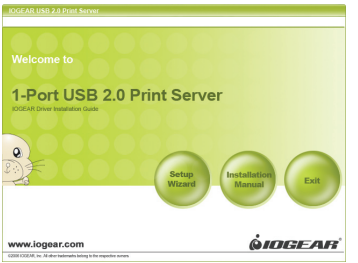
1. Connect a USB cable from the printer to the USB port on the print server.
2. Connect one end of the ethernet patch cable to the ethernet port on the print server.
3. Connect the other end of the ethernet cable to the network. It can be plugged into a router, ethernet switch/hub, or bridge.
4. Connect the Power adapter to the print server.



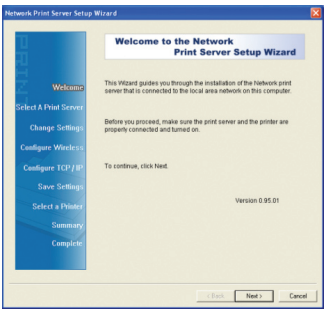
Software Installation – Windows XP

Important Note: Please make sure your printer driver is properly installed on your system before installing the software for print server.

1. Insert the installation CD into the CD-ROM of your computer. The setup utility will launch automatically. If it does not, browse to your CD drive and launch the autorun.exe file from the CD. Click the **Setup Wizard** option from the main menu.

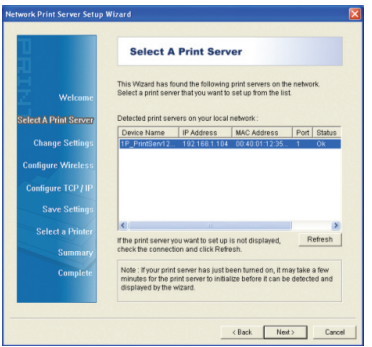


2. A wizard will guide you through the entire process for Windows XP computers. Click **Next** to continue.

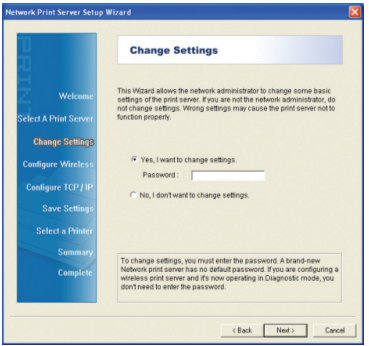

Network Print Server Setup Wizard
Welcome to the Network
Print Server Setup Wizard
This Wizard guides you through the installation of the Network print server that is connected to the local area network on this computer.
Before you proceed, make sure the print server and the printer are properly connected and turned on.
To continue, click Next.
Version 0.95.01
Welcome
Select A Print Server
Change Settings
Configure Wireless
Configure TCP/IP
Save Settings
Select a Printer
Summary
Complete
< Back
Next >
Cancel

3. The wizard will scan your network for the print server and display and results in the list. If no server is found, disable all firewall software and any extra network cards (such as a wireless adapter) on your computer except the one that connects to the network the print server is on, then click **Refresh** to search again.

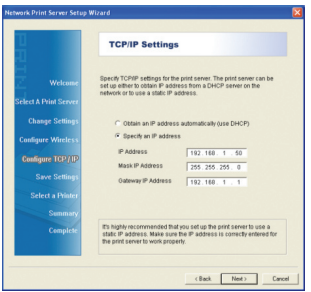
   Select the available print server in the list and click **Next** to continue.


Network Print Server Setup Wizard
Select A Print Server
This Wizard has found the following print servers on the network. Select a print server that you want to set up from the list.
Detected print servers on your local network:
Device Name
IP Address
MAC Address
Port
Status
1P_PrintServ12...
192.168.1.104
00:40:D1:12:35...
1
Ok
Refresh
If the print server you want to set up is not displayed, check the connection and click Refresh.
Note : If your print server has just been turned on, it may take a few minutes for the print server to initialize before it can be detected and displayed by the wizard.
Welcome
Select A Print Server
Change Settings
Configure Wireless
Configure TCP / IP
Save Settings
Select a Printer
Summary
Complete
< Back
Next >
Cancel

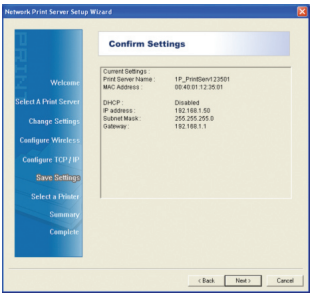
4. Changing the network settings of the print server to a fixed IP address is not necessary but will provide more performance stability, especially in the event of a power outage. It can also be useful if you are setting up IPP (Internet Printing Protocol) to print over the Internet. Click **Next** and skip to step 9 if you do not need to specify an IP address. Otherwise, select the option to change settings (no password is needed by default) and then click **Next**.


Network Print Server Setup Wizard
Welcome
Select A Print Server
Change Settings
Configure Wireless
Configure TCP/IP
Save Settings
Select a Printer
Summary
Complete
Change Settings
This Wizard allows the network administrator to change some basic settings of the print server. If you are not the network administrator, do not change settings. Wrong settings may cause the print server not to function properly.
Yes, I want to change settings.
Password :
No, I don't want to change settings.
To change settings, you must enter the password. A brand-new Network print server has no default password. If you are configuring a wireless print server and it's now operating in Diagnostic mode, you don't need to enter the password.
< Back
Next >
Cancel

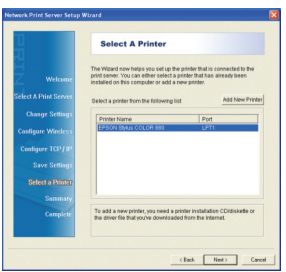
5. Here you can specify the network settings the print server will use. If you will be printing from the Internet, it is important that the Gateway IP Address is set to the IP of your router. Please visit your router's user manual for more details. Click **Next** to continue.


Network Print Server Setup Wizard
Welcome
Select A Print Server
Change Settings
Configure Wireless
Configure TCP/IP
Save Settings
Select a Printer
Summary
Complete
TCP/IP Settings
Specify TCP/IP settings for the print server. The print server can be set up either to obtain IP address from a DHCP server on the network or to use a static IP address.
Obtain an IP address automatically (use DHCP)
Specify an IP address
IP Address
192 168 1 50
Mask IP Address
255 255 255 0
Gateway IP Address
192 168 1 1
It's highly recommended that you set up the print server to use a static IP address. Make sure the IP address is correctly entered for the print server to work properly.
< Back
Next >
Cancel

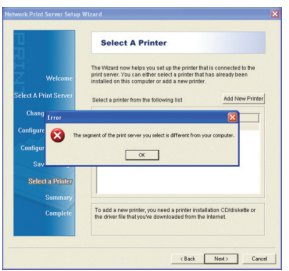
6. All existing printers installed on your computer will show up in this list. Select the model that is now attached to the print server and click **Next** to continue. If the printer you are setting up does not show up in the list, click **Add New Printer** and install your printer's drivers as needed. If asked which port to use, choose LPT1 but do NOT print a test page yet. The printer will be changed to the correct port in the next step.



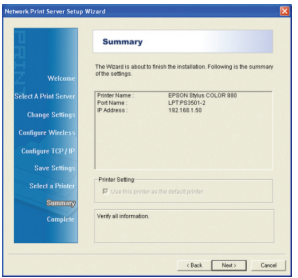
7. If you get the following message, the print server's IP settings are not set up correctly for your network. Click **Back** until you see the screen in step 4, then change the print server's network settings. You may use DHCP to set them automatically if the print server is connected to a router.


Network Print Server Setup Wizard
Select A Printer
The Wizard now helps you set up the printer that is connected to the print server. You can either select a printer that has already been installed on this computer or add a new printer.
Welcome
Select A Print Server
Change Settings
Configure Wireless
Configure TCP/IP
Save Settings
Select a Printer
Summary
Complete
Select a printer from the following list
Add New Printer
Printer Name
Port
EPSON Stylus COLOR 880
LPT1
To add a new printer, you need a printer installation CD/diskette or the driver file that you've downloaded from the Internet.
< Back
Next >
Cancel

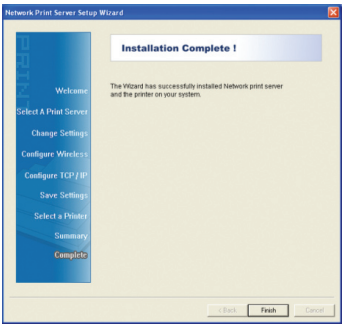
8. A summary screen will show the name of the printer to be modified and the IP of the print server which will be used. If this information is correct click **Next**.


Network Print Server Setup Wizard
Select A Printer
The Wizard now helps you set up the printer that is connected to the print server. You can either select a printer that has already been installed on this computer or add a new printer.
Welcome
Select A Print Server
Select a printer from the following list
Add New Printer
Error
The segment of the print server you select is different from your computer.
OK
Select a Printer
Summary
Complete
To add a new printer, you need a printer installation CD/diskette or the driver file that you've downloaded from the Internet.
< Back
Next >
Cancel

9. Setup of your print server is now complete. Click **Finish** to close the wizard.



10. Setup of your print server is now complete. Click Finish to close the wizard.

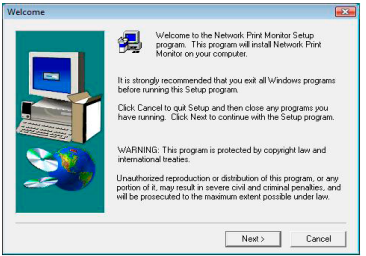


Software Installation – Windows Vista

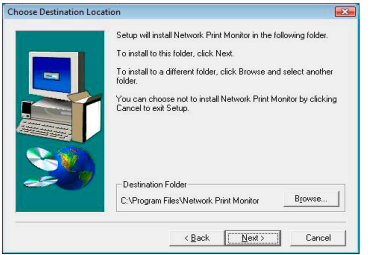
Important Note: Please make sure your printer driver is properly installed on your system before installing the software for print server.

1. Insert the installation CD into the CD-ROM of your computer. The setup utility will launch automatically. If it does not, browse to your CD drive and launch the autorun.exe file from the CD. Click the **Setup Wizard** option from the main menu.

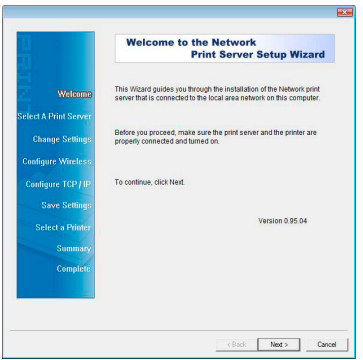
2. The installation wizard will take you through the installation process for Windows Vista computers. Click **Next** to continue.


Welcome
Welcome to the Network Print Monitor Setup program. This program will install Network Print Monitor on your computer.
It is strongly recommended that you exit all Windows programs before running this Setup program.
Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
Next >
Cancel

3. The installation wizard will install the files to the designated folder, but you may also change the destination folder of your choice. Otherwise, click **Next** to continue.

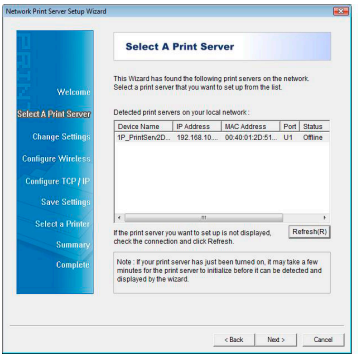

Choose Destination Location
Setup will install Network Print Monitor in the following folder.
To install to this folder, click Next.
To install to a different folder, click Browse and select another folder.
You can choose not to install Network Print Monitor by clicking Cancel to exit Setup.
Destination Folder
C:\Program Files\Network Print Monitor
Browse...
< Back
Next >
Cancel

4. The print server setup wizard will then guide you through the entire process on Windows Vista computers. Click **Next** to continue.

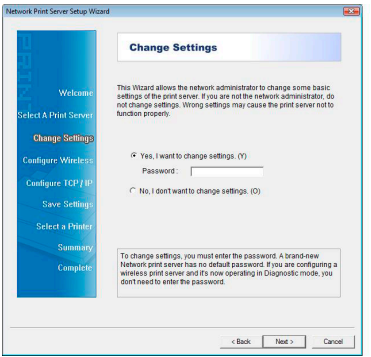

Welcome to the Network
Print Server Setup Wizard
Welcome
Select A Print Server
Change Settings
Configure Wireless
Configure TCP/IP
Save Settings
Select a Printer
Summary
Complete
This Wizard guides you through the installation of the Network print server that is connected to the local area network on this computer.
Before you proceed, make sure the print server and the printer are properly connected and turned on.
To continue, click Next.
Version 0.95.04
< Back
Next >
Cancel

5. The wizard will scan your network for the print server and display and results in the list. If no server is found, disable all firewall software and any extra network cards (such as a wireless adapter) on your computer except the one that connects to the network the print server is on, then click **Refresh** to search again.

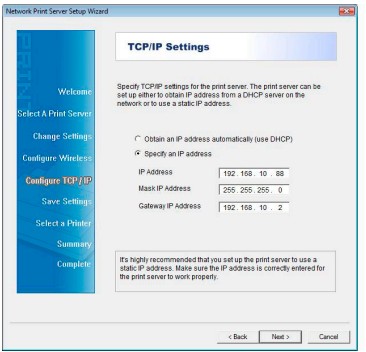
   Select the available print server in the list and click **Next** to continue.


Network Print Server Setup Wizard
Select A Print Server
Welcome
Select A Print Server
Change Settings
Configure Wireless
Configure TCP/IP
Save Settings
Select a Printer
Summary
Complete
This Wizard has found the following print servers on the network. Select a print server that you want to set up from the list.
Detected print servers on your local network:
Device Name
IP Address
MAC Address
Port
Status
IP_PrintSen2D...
192.168.10....
00:40:01:2D:51...
U1
Offline
If the print server you want to set up is not displayed, check the connection and click Refresh.
Refresh(R)
Note : If your print server has just been turned on, it may take a few minutes for the print server to initialize before it can be detected and displayed by the wizard.
< Back
Next >
Cancel

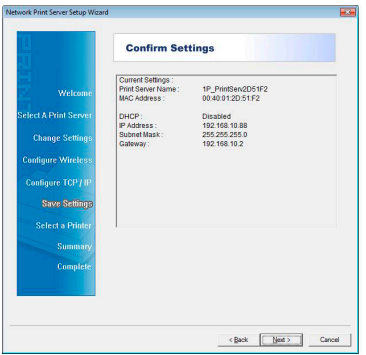
6. Changing the network settings of the print server to a fixed IP address is not necessary but will provide more performance stability, especially in the event of a power outage. It can also be useful if you are setting up IPP (Internet Printing Protocol) to print over the Internet. Click **Next** and skip to step 9 if you do not need to specify an IP address. Otherwise, select the option to change settings (no password is needed by default) and then click **Next**.


Network Print Server Setup Wizard
Change Settings
Welcome
Select A Print Server
Change Settings
Configure Wireless
Configure TCP/IP
Save Settings
Select a Printer
Summary
Complete
This Wizard allows the network administrator to change some basic settings of the print server. If you are not the network administrator, do not change settings. Wrong settings may cause the print server not to function properly.
Yes, I want to change settings. (Y)
Password :
No, I don't want to change settings. (O)
To change settings, you must enter the password. A brand-new Network print server has no default password. If you are configuring a wireless print server and it's now operating in Diagnostic mode, you don't need to enter the password.
< Back
Next >
Cancel

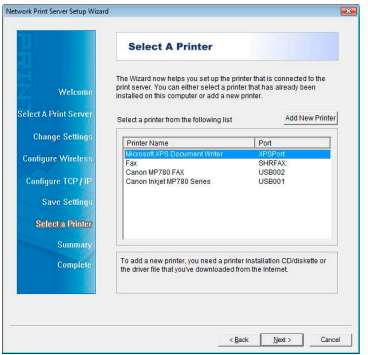
7. Here you can specify the network settings the print server will use. If you will be printing from the Internet, it is important that the Gateway IP Address is set to the IP of your router. Please visit your router's user manual for more details. Click **Next** to continue.


Network Print Server Setup Wizard
TCP/IP Settings
Welcome
Select A Print Server
Change Settings
Configure Wireless
Configure TCP/IP
Save Settings
Select a Printer
Summary
Complete
Specify TCP/IP settings for the print server. The print server can be set up either to obtain IP address from a DHCP server on the network or to use a static IP address.
Obtain an IP address automatically (use DHCP)
Specify an IP address
IP Address
192 . 168 . 10 . 88
Mask IP Address
255 . 255 . 255 . 0
Gateway IP Address
192 . 168 . 10 . 2
It's highly recommended that you set up the print server to use a static IP address. Make sure the IP address is correctly entered for the print server to work properly.
< Back
Next >
Cancel

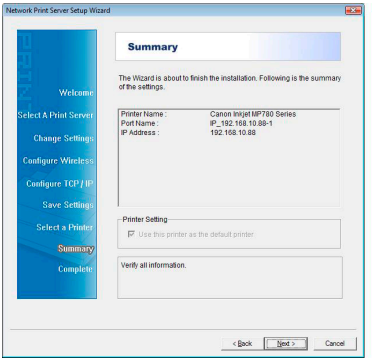
8. Review the settings you have entered carefully and click **Next** to confirm that they are correct and save them to the print server.



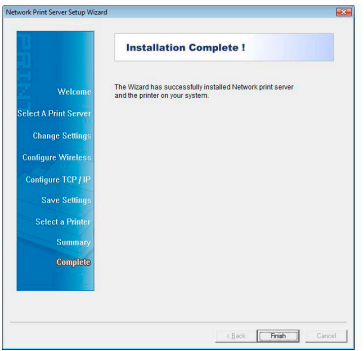
9. All existing printers installed on your computer will show up in this list. Select the model that is now attached to the print server and click **Next** to continue. If the printer you are setting up does not show up in the list, click **Add New Printer** and install your printer's driver as needed. If asked which port to use, choose LPT1 but DO NOT print a test page yet. The printer will be changed to the correct port in the next step.


Network Print Server Setup Wizard
Welcome
Select A Print Server
Change Settings
Configure Wireless
Configure TCP / IP
Save Settings
Select a Printer
Summary
Complete
Select A Printer
The Wizard now helps you set up the printer that is connected to the print server. You can either select a printer that has already been installed on this computer or add a new printer.
Select a printer from the following list
Add New Printer
Printer Name
Port
Microsoft XPS Document Writer
XPSPort
Fax
SHRFAX
Canon MP780 FAX
USB002
Canon Inkjet MP780 Series
USB001
To add a new printer, you need a printer installation CD/diskette or the driver file that you've downloaded from the Internet.
< Back
Next >
Cancel

10. A summary screen will show the name of printer to be modified and the IP of the print server which will be used. If this information is correct, click **Next** to continue.

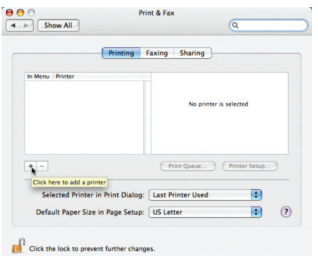


11. Setup of your print server is now completed.
    Click **Finish** to close the wizard.

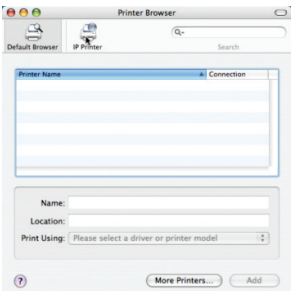


Software Installation - Mac

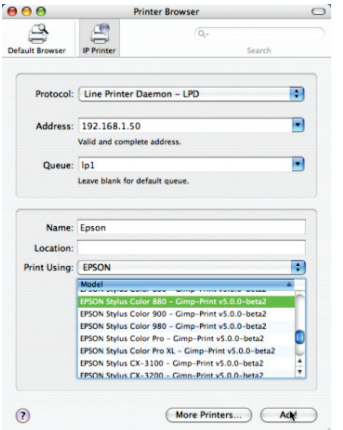
1. No software from the Setup CD is needed on Macintosh systems. Simply open the **Print and Fax settings** from your System Preferences window. Click the plus (+) button to setup a new printer..



2. At the top of the Printer Browser, click the icon for IP printer.



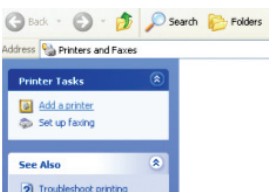
3. Select the LPD protocol, then type in the IP address of the print server. Type **“lp1”** with lowercase letters for the name of the Queue. Name the new printer and select the model below. Click **Add** when you are finished, and you are ready to print.



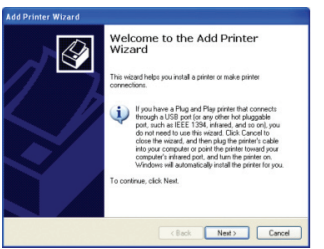
Setup Internet Printing – Windows XP

Software Installation - IPP

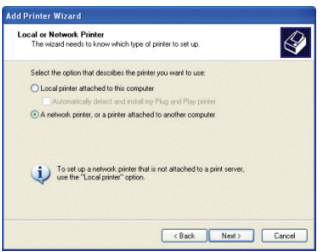
1. To print from a remote location, you will first need to make sure port 631 is forwarded through your router's firewall to the print server. Then simply set up IPP using the address http://(print-server-ip):631/lp1 as shown here on an example Windows XP system. Click **Add** a printer from your printers and faxes window to begin.



2. Click **Next** when the Add Printer Wizard appears.


Add Printer Wizard
Welcome to the Add Printer Wizard
This wizard helps you install a printer or make printer connections.
If you have a Plug and Play printer that connects through a USB port (or any other hot pluggable port, such as IEEE 1394, infrared, and so on), you do not need to use this wizard. Click Cancel to close the wizard, and then plug the printer's cable into your computer or point the printer toward your computer's infrared port, and turn the printer on. Windows will automatically install the printer for you.
To continue, click Next.
< Back
Next >
Cancel

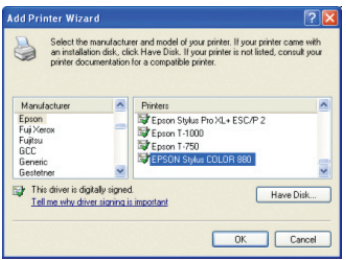
3. Select the option for a network printer, then click **Next**.


Add Printer Wizard
Local or Network Printer
The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Local printer attached to this computer
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< Back
Next >
Cancel

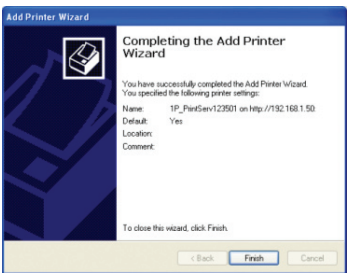
4. Select the option to connect to a printer on the internet, and type in the full IPP address as shown. You must use the external, or WAN, IP address of your router if the print server is behind one. You must also specify port 631 and queue name “lp1” in lowercase. Click **Next** to continue.

Add Printer Wizard
Specify a Printer
If you don't know the name or address of the printer, you can search for a printer that meets your needs.
What printer do you want to connect to?
Browse for a printer
Connect to this printer (or to browse for a printer, select this option and click Next):
Name:
Example: \\server\printer
Connect to a printer on the Internet or on a home or office network:
URL:
http://192.168.1.50:631/lp1
Example: http://server/printers/myprinter/.printer
< Back
Next >
Cancel

5. The wizard will ask you to choose the model of your printer. Click **OK** when you have chosen the appropriate driver.

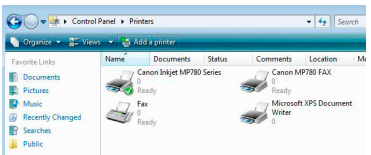


6. Click **Finish** to complete the wizard and begin printing to your home or office printer from anywhere in the world.

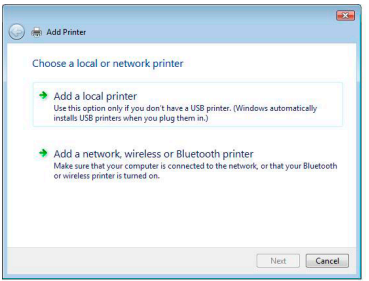


Setup Internet Printing – Windows Vista

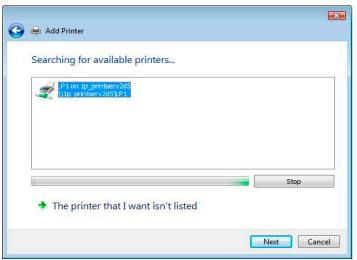
1. Click on the Vista logo, select Control Panel, then double click on Printers. Click on **Add a printer** to continue.



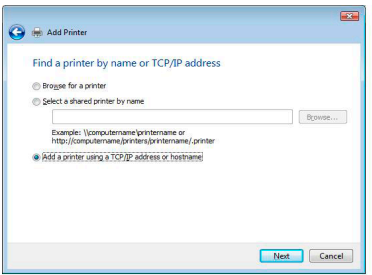
2. Click on **Add a network, wireless or Bluetooth printer** to continue.


Add Printer
Choose a local or network printer
Add a local printer
Use this option only if you don't have a USB printer. (Windows automatically installs USB printers when you plug them in.)
Add a network, wireless or Bluetooth printer
Make sure that your computer is connected to the network, or that your Bluetooth or wireless printer is turned on.
Next
Cancel

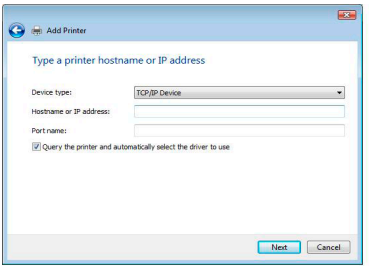
3. Since we are setting up a new IPP connection, click on **The printer that I want isn't listed** to continue.



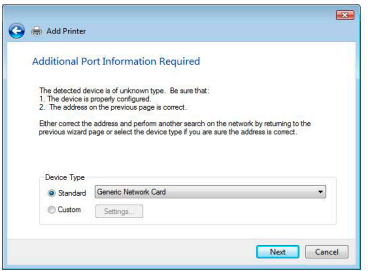
4. Select the option **Add a printer using a TCP/IP address or hostname**, then click on **Next** to continue.



5. From the Device type drop down menu, select **TCP/IP** Device from the list. For the Hostname or IP address, please put in "**http://(router ip):631/lp1**". The router IP address is the WAN IP address on your router, please refer to the user manual of your router for detail information. The 631 is a special port number that is needed for standard IPP service. After putting in all these information, click on **Next** to continue.

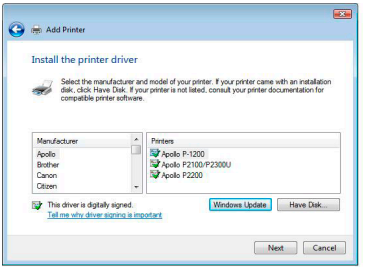


6. If you get the following message, please select the correct network card from the Standard drop down menu. If you are connecting through standard RJ-45 Ethernet connection, then select Generic Network Card. Otherwise, please make sure to select the correct device type then click on **Next** to continue.

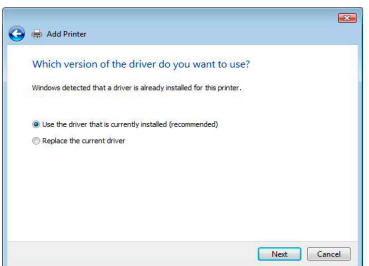

Add Printer
Additional Port Information Required
The detected device is of unknown type. Be sure that:
1. The device is properly configured.
2. The address on the previous page is correct.
Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct.
Device Type
Standard
Generic Network Card
Custom
Settings...
Next
Cancel

7. If you had installed the driver for your printer, then select the manufacturer of your printer from the Manufacturer list and select the correct model from the Printers list. Click on **Next** to continue.

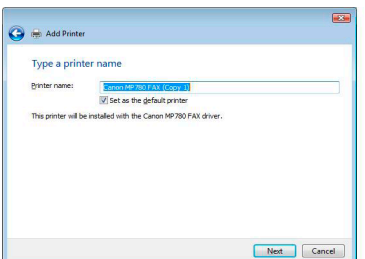
   If you have not installed the driver for your printer, click on **Have Disk**..., insert the driver CD that comes with your printer into your computer, then follow the on screen prompts to finish the printer driver installation.



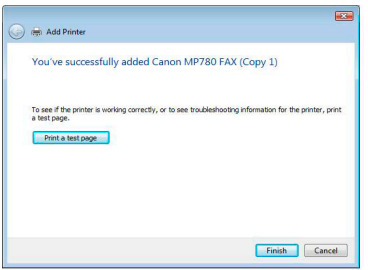
8. If you already have the driver installed, then select the option Use the driver that is currently installed (recommended) and click on **Next** to continue.


Add Printer
Which version of the driver do you want to use?
Windows detected that a driver is already installed for this printer.
Use the driver that is currently installed (recommended)
Replace the current driver
Next
Cancel

9. You can choose to change the printer name here if you like to, or you may leave it as the default name as displayed in the text box. Click on **Next** to continue.



10. You can choose to print a test page by clicking on the **Print a test page** to verify the connection is established correctly. After a test page is printed, then click on **Finish** to complete the setup.


Add Printer
You've successfully added Canon MP780 FAX (Copy 1)
To see if the printer is working correctly, or to see troubleshooting information for the printer, print a test page.
Print a test page
Finish
Cancel

Technical Support

If you need technical support, please check out our IOGEAR Tech Info Library (TIL) at http://www.iogear.com/support for the latest tips, tricks, and troubleshooting. The TIL is designed to provide you with the latest technical information about our products. Most of the answers to your questions can be found here, so please try it out before contacting technical support.

Technical support is available Monday through Friday from 8:00 am to 5:00 pm PST by calling our toll-free number 866-9-IOGEAR (866-946-4327). International callers may need to use the number 949-453-8782. Help is also available by e-mailing us at support@iogear.com.

Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Operation is subject to the following two conditions:

1. this device may not cause interference and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CE Statement

This device has been tested and found to comply with the requirements set up in the council directive on the approximation of the law of member states relating to EMC Directive 89/336/EEC, Low Voltage Directive 73/23/EEC and R&TTE Directive 99/5/EC.

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IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, DISK OR ITS DOCUMENTATION EXCEED THE PRICE PAID FOR THE PRODUCT.

The direct vendor makes no warranty or representation, expressed, implied, or statutory with respect to the contents or use of this documentation, and especially disclaims its quality, performance, merchantability, or fitness for any particular purpose.

The direct vendor also reserves the right to revise or update the device or documentation without obligation to notify any individual or entity of such revisions, or updates. For further inquires please contact your direct vendor.

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FUN

IOGEAR offers connectivity solutions that are innovative, fun, and stylish, helping people enjoy daily life using our high technology products.

GREEN

IOGEAR is an environmentally conscious company that emphasizes the importance of conserving natural resources. The use of our technology solutions helps reduce electronic waste.

HEALTH

IOGEAR supports healthy and fit lifestyles. By integrating products with the latest scientific developments, IOGEAR's solutions enhance the life of end-users.

PART NO. M1102

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